

What is claimed:

1. A receiver, comprising:
a first antenna configured to receive wireless signals;
a second antenna configured to receive wireless signals;
a delay block coupled with the second antenna, the delay configured to delay the wireless signals received by the second antenna; and
a combiner configured to combine the wireless signals received by the first antenna and the delayed wireless signals received by the second antenna; and
a baseband circuit configured to process the combined wireless signals.
2. The receiver of claim 1, wherein the delay block is configured to delay the wireless signals received by the second antenna by a fixed delay.
3. The receiver of claim 2, wherein the fixed delay is based on a known delay spread.
4. The receiver of claim 1, wherein the baseband circuit is configured to dynamically update the delay applied by the delay block.
5. The receiver of claim 4, wherein the baseband circuit is configured to determine a delay spread for the wireless signals received by the first antenna and to dynamically update the delay applied by the delay block to the wireless signals received by the second antenna based on the delay spread determined for the wireless signals received by the first antenna.

6. The receiver of claim 5, wherein the delay spread determined for the wireless signals received by the first antenna is the average delay spread.

7. The receiver of claim 5, wherein the delay spread determined for the wireless signals received by the first antenna is the maximum delay spread.

8. The receiver of claim 4, wherein the baseband circuit is configured to continually dynamically update the delay applied by the delay block.

9. The receiver of claim 4, wherein the baseband circuit is configured to periodically dynamically update the delay applied by the delay block.

10. The receiver of claim 4, wherein the baseband circuit is configured to non-periodically dynamically update the delay applied by the delay block.

11. The receiver of claim 1, wherein the baseband circuit is configured to use maximum ratio combining to process the combined wireless signals.

12. The receiver of claim 1, further comprising a plurality of antennas configured to receive wireless signals, and a plurality of delay blocks interfaced with the plurality of antennas, the plurality of delay blocks configured to delay the wireless signals received by the plurality of antennas.

13. A wireless communication system, comprising:
a transmitter configured to transmit wireless signals; and
a receiver comprising:

a first antenna configured to receive the wireless signals transmitted by the transmitter,

a second antenna configured to receive the wireless signals transmitted by the transmitter,

a delay block coupled with the second antenna, the delay configured to delay the wireless signals received by the second antenna, and

a combiner configured to combine the wireless signals received by the first antenna and the delayed wireless signals received by the second antenna, and

a baseband circuit configured to process the combined wireless signals.

14. The wireless communication system of claim 13, wherein the delay block is configured to delay the wireless signals received by the second antenna by a fixed delay.

15. The wireless communication system of claim 14, wherein the fixed delay is based on a known delay spread.

16. The wireless communication system of claim 13, wherein the baseband circuit is configured to dynamically update the delay applied by the delay block.

17. The wireless communication system of claim 16, wherein the baseband circuit is configured to determine a delay spread for the wireless signals received by the first antenna and to dynamically update the delay applied by the delay block to the wireless signals received by the second antenna based on the delay spread determined for the wireless signals received by the first antenna.

18. The wireless communication system of claim 17, wherein the delay spread determined for the wireless signals received by the first antenna is the average delay spread.

19. The wireless communication system of claim 17, wherein the delay spread determined for the wireless signals received by the first antenna is the maximum delay spread.

20. The wireless communication system of claim 16, wherein the baseband circuit is configured to continually dynamically update the delay applied by the delay block.

21. The wireless communication system of claim 16, wherein the baseband circuit is configured to periodically dynamically update the delay applied by the delay block.

22. The wireless communication system of claim 16, wherein the baseband circuit is configured to non-periodically dynamically update the delay applied by the delay block.

23. The wireless communication system of claim 13, wherein the baseband circuit is configured to use maximum ratio combining to process the combined wireless signals.

24. The wireless communication system of claim 24, wherein the receiver further comprises a plurality of antennas configured to receive wireless signals, and a plurality of delay blocks interfaced with the plurality of antennas, the plurality of delay blocks configured to delay the wireless signals received by the plurality of antennas.

25. The wireless communication system of claim 13, wherein the transmitter comprises a plurality of antennas.

26. A method for receiving wireless signals, comprising:
receiving a first wireless signal with a first antenna;
receiving a second wireless signal with a second antenna;
delaying the wireless signal received by the second antenna a certain amount; and
combining the wireless signal received by the first antenna and the delayed wireless signal received by the second antenna; and
processing the combined wireless signal.

27. The method of claim 26, wherein delaying the wireless signals received by the second antenna comprises delaying the wireless signals by a fixed delay.

28. The method of claim 27, wherein the fixed delay is based on a known delay spread.

29. The method of claim 26, further comprising dynamically updating the certain amount of delay.

30. The method of claim 29, further comprising determining a delay spread for the wireless signals received by the first antenna and dynamically updating the certain amount of delay applied to the wireless signals received by the second antenna based on the delay spread determined for the wireless signals received by the first antenna.

31. The method of claim 30, wherein the delay spread determined for the wireless signals received by the first antenna is the average delay spread.

32. The method of claim 30, wherein the delay spread determined for the wireless signals received by the first antenna is the maximum delay spread.

33. The method of claim 29, further comprising continually dynamically updating the certain amount of delay.

34. The method of claim 29, further comprising periodically dynamically updating the certain amount of delay.

35. The method of claim 29, further comprising non-periodically dynamically updating the certain amount of delay.

36. The method of claim 26, wherein processing the combined wireless signals comprises applying maximum ratio combining to the combined wireless signals.